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(71) Applicant (for all designated States except US): BURCON
NUTRASCIENCE (MB) CORP. [CA/CA]; 1388 Waller
Avenue, Winnipeg, Manitoba R3T 1P9 (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SCHWEIZER,

Martin [DE/CA]; 404-605 River Avenue, Winnipeg,
Manitoba R3L 0E7 (CA). GREEN, Brent E. [CA/CA];
586 Rathgar Avenue, Winnipeg, Manitoba R3L 1G4 (CA).
WILLARSEN, Randy [US/US]; 1933 Park Oak Drive,
Roseville, California 95661 (US).

(74) Agents: STEWART, Michael I. et al.; Sim & McBurney,
6th Floor, 330 University Avenue, Toronto, Ontario M5G
1R7 (CA).

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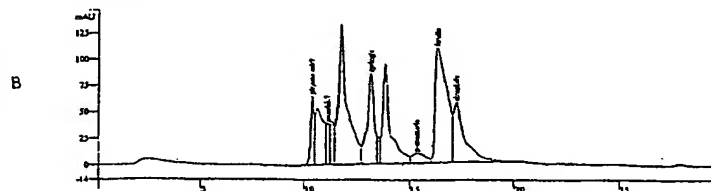
[Continued on next page]

(54) Title: PREPARATION OF CANOLA PROTEIN ISOLATE AND USE IN AQUACULTURE

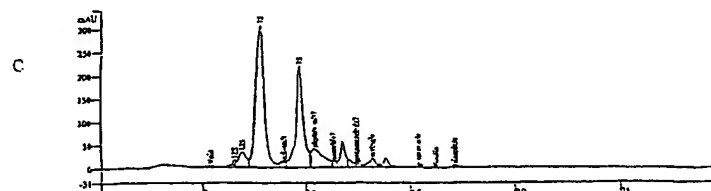
Bench Extract December 11, 2003: SEC-HPLC chromatogram 1:4 dil. 50-uL injection.



Bench DF Permeate December 12, 2003: SEC-HPLC chromatogram no dil. 50-uL injection.



Bench DF UF Dialyzed Isolate December 17, 2003: SEC-HPLC chromatogram 1% 50-uL injection.



(57) Abstract: A canola protein isolate useful in aquaculture is formed by a procedure in which canola oil seed meal is extracted to cause solubilization of protein in the canola oil seed meal to form an aqueous protein solution having a protein content of about 5 to about 40 g/L and a pH of about 5 to about 6.8. After separation of the aqueous protein solution from the residual canola oil seed meal, the protein concentration is increased to at least about 50 g/L while maintaining the ionic strength substantially constant by using a selective membrane technique. The concentrated protein solution is dried to provide a canola protein isolate having a protein content of at least about 90 wt% (N x 6.25) d.b.

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